



GUJARAT INFORMATICS LIMITED

Block No: 1, 8th Floor, Udhyog Bhavan, Sector-11, Gandhinagar: 382 010 Phone No: 23256022, Fax No: 23238925

Bid for Purchase of Desktops & Other peripherals on behalf of Office of the Director of Primary Education, Education Department, Government of Gujarat

Tender No. HWT040917456

Pre-bid meeting : 14.09.2017 on 1500 hours

Last Date of Submission of Bid : 27.09.2017 till 1500 hours

Last Date of Submission of Bid Processing Fees & EMD: 27.09.2017 till 1500 hours

Date of Opening of Bid : 27.09.2017 at 1700 hours

Bid Processing Fee: Rs. 15,000



Gujarat Informatics Limited (hereinafter referred to as "GIL"), intend to invite offers through e-Tendering route for supply, installation, commissioning and maintenance of Desktops & Other peripherals for various Pay-Center Schools within the State of Gujarat under Office of the Director of Primary Education, Gandhinagar. (Tender no. HWT040917456).

Eligibility Criteria for the bidder:

- 1. The bidder should have an average annual turnover of Rs. 10 Crore (Minimum) during the last three financial years as on 31.03.2016. The copies of Audited Annual Accounts for last three years shall be uploaded along with the bid. (Form no. E-1)
- 2. The bidder must have one office in Gujarat. Please upload the copy of any two of the following: Property tax bill/Electricity Bill/Telephone Bill/VAT/CST Registration/Lease agreement. (Form no. E-2). In case, bidder do not have office in Gujarat, bidder should give undertaking to open office in Gujarat within 45 days from the date of empanelment.
- 3. The bidder must have at least 25 reference sites each of minimum 50 machine (computer) installations in India. Customer references & Purchase orders must be uploaded along with the bid. (Form No. E-3).
- The bidder should be authorized by its OEM for Desktops, Printers, UPS etc. to quote the bid (Form no. E-4).
- 5. The Manufacturer of the product(s) (OEM) should be ISO 9001:2008 Process Certified for manufacturing. (Form No. E-5)

Note:

- 1.) Bidders who wish to participate in this bid will have to register on <u>https://gil.nprocure.com</u>. Further bidders who wish to participate in online bids will have to procure Digital Certificate as per Information Technology Act 2000 using which they can sign their electronic bids. Bidders can procure the same from (n) code solutions a division of GNFC Ltd., or any other agency licensed by Controller of Certifying Authority, Govt. of India. Bidders who already have a valid Digital Certificate need not procure a new Digital Certificate.
- 2.) All the details and the supportive documents for the above mentioned items should be uploaded in eligibility section in the bid.

The terms and conditions are as follows:

- 1 The last date of submission of bid on the website <u>https://gil.nprocure.com</u> is 1500 hrs. 27.09.2017. **No physical bids will be accepted under normal circumstances**. However, GIL reserves the right to ask the bidders to submit the bid and/or any other documents in physical form.
- 2 The bid is non-transferable.
- 3 The Bidder may quote only one Make and model against each item as asked under the bid against each item. Bidders are required to mention make & model of the product. (Do not write "OEM" against items as bidders are expected to give make & model of the product).
- 4 The bidder will have to supply, install, commissioning & maintain and provide warranty and support along with operational training for supplied hardware, operating software and peripherals to the Office of the Director of Primary Education, Gandhinagar or as decided by the Office of the Director of Primary Education, Gandhinagar. The Delivery, Installation and commissioning shall be done at the 3468 Schools across the state of Gujarat.
- 5 In case the quoted Item is not available in the market, the bidder will have to supply Higher Version/replacement of that Item in the quoted cost in the same time duration with prior approval of GIL. No "End of Life" product should be quoted to minimize such instances. (Make & Model quoted by the bidder should be available till the bid validity, duly supported for spares/OEM support for warranty period).
- 6 The Bidder shall bear all the costs associated with the preparation and submission of its bid, and GIL will in no case will be responsible or liable for these costs, regardless of conduct or outcome of bidding process.
- 7 Technical specifications indicated are minimum specification. Bidder may quote for better solution. The bidder should provide following with the technical bid:
 - Make & Model Number
 - Name of Manufacturer
 - Technical Literature
 - Manufacturer's Data Sheet
 - Compliance statement from the OEM of the product
- 8 The bidder has to upload the compliance letter on its letter head duly signed by the authorized signature & other supporting documents as asked for in the bid in scanned format. Failing to submit the same or non-compliance/deviation from any bid terms and conditions, eligibility criteria or technical specifications may result in rejection of the bid.
- 9 The Bidder has to examine all instructions, forms, terms, conditions and specifications in the bidding documents. Failure to furnish all information required by the bidding documents or submission of a bid not substantially responsive to the biding documents in every respect will be at the Bidder's risk and may result in rejection of its bid.
- 10 Amendment of Bidding Documents
 - 10.1 At any time prior to the deadline for submission of bids, GIL may, for any reason, whether its own initiative or in response to the clarification request by a prospective bidder, modify the bidding documents.
 - 10.2 The corrigendum will be published on website <u>https://gil.nprocure.com</u> &

www.gil.gujarat.gov.in

- 10.3 In order to allow prospective bidders reasonable time to take into consideration the amendments while preparing their bids GIL, at its discretion, may extend the deadline for the submission of bids.
- 11 Bid Currency Prices shall be quoted in Indian Rupees only.
- 12 The Bidder will have to remit **Bid Processing Fees (Nonrefundable) of Rs. 15,000/- & Earnest Money Deposit (E.M.D.) of Rs. 43,00,000/-** on or before 27.09.2017 up to 1500 hours in a sealed cover at GIL office with the heading "**Bid Processing fees & EMD for the e-Tender No. HWT040917456** for supply, installation, commissioning and maintenance of Desktops & Other peripherals for various PE-Center Schools within the State of Gujarat under Office of the Director of Primary Education, Gandhinagar"
 - ✓ Bid processing fees must be in the form of Demand Draft in the name of "Gujarat Informatics Ltd." payable at Gandhinagar along with the covering letter. Please affix the stamp of your company on the overleaf of demand draft.
 - ✓ EMD shall be submitted in the form of Demand Draft <u>OR</u> in the form of an unconditional Bank Guarantee (which should be valid for 9 months from the last date of bid submission) of All Nationalized Bank including the public sector bank or Private Sector Banks or banks (operating in India having branch at Ahmedabad/ Gandhinagar) as per the G.R. no. EMD/10/2016/328/DMO dated 01.05.2017 issued by Finance Department or further instruction issued by Finance department time to time in the name of "Gujarat Informatics Ltd." payable at Gandhinagar (as per prescribed format given at as per prescribed format given at <u>Annexure A</u>) and must be submitted along with the covering letter.

Note: Failing to submit physical covers of EMD and bid processing fees at GIL on or before 27.09.2017 up to 1500 hours may lead to the rejection of the bid.

- 13 In case of non-receipt of Bid Processing fees & EMD as mentioned above within prescribed date and time the bid will be rejected by GIL as non-responsive.
- 14 Unsuccessful/disqualified bidder's E.M.D. will be returned as promptly as possible but not later than 15 days after the expiration of the period of bid validity OR upon the successful Bidder signing the Contract, and furnishing the Performance Bank Guarantee @ 5% of the total order value as prescribed by GIL, whichever is earlier.
- 15 In exceptional circumstances, GIL may solicit the Bidder's consent to an extension of the period of validity. The request and the responses thereto shall be made in writing. A Bidder may refuse the request without forfeiting its E.M.D. A Bidder granting the request will not be permitted to modify its bid.
- 16 The Successful bidder has to submit Performance Bank Guarantee @ 5% of total order value within 15 days from the date of issue of Purchase order (for warranty period + extra 3 months) All Nationalized Bank including the public sector bank or Private Sector Banks or banks (operating in India having branch at Ahmedabad/ Gandhinagar) as per the G.R. no. EMD/10/2016/328/DMO dated 01.05.2017 issued by Finance Department or further instruction issued by Finance department time to time (The draft of Performance Bank Guarantee is attached herewith).
- 17 Successful bidders will have to sign the contract upon receiving the Purchase order with the purchaser(s) within 15 working days from the date of Purchase order. (The draft of the Contract form is attached herewith)

- 18 The successful Bidder's E.M.D. will be returned upon the Bidder signing the Contract, and furnishing the Performance Bank Guarantee @ 5% of the total order value, offer of inspection of the ordered material and after completion of bid validity whichever is later.
- 19 If the successful bidder fails to submit the Performance Bank Guarantee & sign the Contract Form within prescribed time limit, the EMD of the successful bidder will be forfeited. GL also reserves the right to blacklist such bidder from participating in future tenders if sufficient cause exists."
- 20 The EMD may be forfeited at the discretion of GIL, on account of one or more of the following reasons:
 - a. If a Bidder withdraws their Bid during the period of Bid validity.
 - b. If Bidder does not respond to requests for clarification of their Bid
 - c. If Bidder fails to co-operate in the Bid evaluation process, and
 - d. In case of a successful Bidder, the said Bidder fails:
 - i. To sign the Agreement / Contract in time
 - ii. To furnish Performance Bank Guarantee
 - iii. If the bidder is found to be involved in fraudulent practices.
 - iv. GIL also reserves the right to blacklist such bidder from participating in future tenders if sufficient cause exists.

21 Termination for Default

- 21.1 The Purchaser may, without prejudice to any other remedy for breach of contract, by written notice of default sent to the Bidder (after providing notice/cure period of 30 days), terminate the Contract in whole or part:
 - a) if the bidder fails to deliver any or all of the Goods within 45 working days from the date of purchase order, or within any extension thereof granted by the Purchaser or
 - b) if the Bidder fails to perform any obligation(s) under the Contract/Purchase order.
 - c) If the Bidder, in the judgment of the Purchaser has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.

For the purpose of this clause:

"Corrupt practice" means the offering, giving, receiving or soliciting of anything of value of influence the action of a public official in the procurement process or in contract execution.

"fraudulent practice : a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the purchaser, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the purchaser of the benefits of free and open competition;"

- 21.2 In the event the Purchaser terminates the Contract in whole or in part, pursuant to Clause 20.1 above, the Purchaser may procure, upon such terms and in such manner, as it deems appropriate, Goods or Services similar to those undelivered, and the Bidder shall be liable to the Purchaser for any excess costs for such similar Goods or Services. However, the Bidder shall continue the performance of the Contract to the extent not terminated.
- 22 Price shall be inclusive of all Duties, freight, forwarding, transit insurance and installation charges.
- 23 Prices shall be in Indian Rupees. The prices shall strictly be submitted in the given format. The tax (GST) components as applicable shall be mentioned separately in the respective columns.

- Late Bids No Bidder will be allowed to upload or submit the bid after the bid due date and time.
- 25 Modification and Withdrawal of Bids
 - 25.1 No bids will be allowed to be modified subsequent to the final submission of bids.
 - 25.2 No bid will allowed to be withdrawn in the interval between the deadline for submission of bids and the expiry of the bid validity. Withdrawal of a bid during this interval will result in the forfeiture of bidder's E.M.D.
- 26 Opening if Bid:
 - 26.1 Bids will be opened in the presence of Bidder's representatives, who choose to attend. The Bidder's representatives who are present shall sign a register/attendance sheet evidencing their attendance. The representative will be held responsible for all commitments made on behalf of the bidder and that will be considered valid for all further dealings related to this tender process. In the absence of the bidder(s), the tender committee may choose to open the bids as per the prescribed schedule.
 - 26.2 The Bidder's names, Bid modifications or withdrawals, discounts and the presence or absence of relevant E.M.D. and such other details as GIL/GOG officer(s) at their discretion, may consider appropriate, will be announced at the opening.
- 27 **Rejection of Bid**: GIL reserves the right to reject any Bid, and to annul the bidding process and reject all bids at any time prior to award of Contract, without thereby incurring any liability to the affected Bidder(s) or any obligation to inform the affected Bidder(s) of the grounds for such decision

28 Evaluation of the bids:

- 28.1 After the closing time of bid submission, GIL committee will verify the submission of Bid Processing Fees & EMD as per bid terms and conditions. The eligibility criteria evaluation will be carried out of the responsive bids. The technical bids of the bidders who are complying with all the eligibility criteria will be opened and evaluated next.
- 28.2 The financial bid of technically qualified bidders will be opened and financially Lowest (L1) bidder will be identified based on the sum total of prices for all line items without tax with warranty and then called for further negotiations if required.

29 Award of Contract:

- 29.1 Award Criteria: The Criteria for selection will be the lowest cost for the technically qualified bids.
- 29.2 In case, the lowest bidder (L1) does not accept the award of contract or found to be involved in corrupt and/or fraudulent practices, the next lowest bidder i.e. L2 will be awarded the contract. In such scenario, the L2 bidder has to match the L1 Price and execute the project at the L1 Price for the entire contract duration.
- 29.3 The contract duration will be for Three (03) year from the date of installation i.e. the date on which all the equipment supplied & installed under the bid. During the contract period, the bidder will have to provide necessary support and coordination for the equipment supplied under the contract
- 30 As per the provision in Electronics & IT/ITeS Start-up Policy Resolution No. ITS/10/2015/5284/IT dated 6th June, 2016 issued by Department of Science & Technology; in e-Governance project undertaken by Government Departments or its Boards, Corporations or parastatal bodies getting grants from the Government, the chosen solution provider or system integrator will pass on job work or will outsource part of the work of a value ranging between 5% to 10% of the contract value to the eligible start-ups and to students of shortlisted Technical Colleges in Gujarat. In such arrangements, the responsibility

of meeting SLAs (Service Level Agreements) will continue to belong to the solution provider or the system integrator.

31 Laboratory Testing:

The bidder will have to offer the inspection at EQDC, Gandhinagar & in the manner as decided by GIL before delivering to the respective sites. The cost of the same has to be borne by the supplier. Any deviation found in the specification of the produced goods or delivered goods after inspection from the tender specifications will lead to the cancellation of the order, forfeiture of EMD/PBG and prohibition in the participation in the future purchase of Government of Gujarat. GIL/GoG will not be responsible for any time delay which may arise due to any deviation from the bid technical specification found at the time of inspection and the bidder has to deliver and install the ordered goods within prescribed time limit.

✓ For Desktops: GIL/EQDC will select minimum 1 sample from each category for testing purpose quoted by bidder

(**Note:** During the validity of tender, if bidder will offer OR request GIL to accept higher model for PC instead of quoted model, due to technical reasons, i.e. EOL of quoted model, then GIL will also take sample of new offered higher model of Desktop)

✓ For UPS: GIL/EQDC will select minimum 1 sample for testing purpose quoted by bidder

(**Note:** During the validity of tender, if bidder will offer OR request GIL to accept higher model for UPS instead of quoted model, due to technical reasons, i.e. EOL of quoted model, then GIL will also take sample of new offered higher model of UPS)

All the charges to carry out laboratory testing shall be borne by the bidder. Selection of the sample shall be done by the inspection team as per the standard norms and procedure.

At the time of inspection, bidder is required to produce OEM's confirmation on OEM's Letter head with Sr. nos. of Equipment, Software supplied for back to back warranty support as per tender terms & conditions.

Successful bidder has to paste non-removable sticker on each of the supplied equipment's. with details of Tender no., bidder's name, address, contact detail, service center/ help line number and warranty expiry date.

32 The indenter's right to inspect, test and, where necessary, reject the Goods after the Goods arrival at Customer Site shall in no way be limited or waived by reason of the Goods having previously been inspected, tested and passed by the Purchaser or its representative prior to the Goods shipment.

33 Delivery & installation:

• Within 45 working days from the date of purchase order at respective site/ locations.

Note: For Repeat purchase order of Cartridge if the bidder fails to deliver Cartridge within 7 working days from the issue of the purchase order at respective site/locations, then a sum equivalent to one percent (1%) of the order value shall be deducted from the payment for each calendar week of delay or part thereof. The amount of penalty for delay in delivery of Cartridge shall be subject to a maximum limit of 10% of the order value.

Delivery & installation locations:



- Primary Education School spread across 3468 nos. Pay-Center Schools of the state of Gujarat (each Primary Education School shall be provided 1 nos. of Desktop PC & Multifunction Printer & UPS).
- 34 In case of successful bidder is found to be in breach of any condition(s) of bid or supply order/work order, at any stage during the course of supply / installation or warranty period, the legal action as per rules/laws, shall be initiated against the empanelled bidder and EMD/PBG shall be forfeited, besides debarring and blacklisting the bidder concerned for the time period as decided by Govt., for further dealings with GoG.
- 35 Bids shall be valid for **120 days** after the date of financial bid opening. A bid valid for a shorter period shall be rejected as non-responsive. If required, GIL may extend the bid validity for further period from the date of expiry of bid validity in consultation with the successful bidder.
- 36 Bidders are required to quote all items including optional add-ons as well. Incomplete bids will be treated as non-responsive and will be rejected.
- 37 The Bidder/System Integrator will be required to co-ordinate with software vendor and/or do liasioning with other service provider to achieve the end-to-end Scope of Work.. This also includes OS and system level configuration.
- 38 Bidder must ensure that the warranty support & service should be available up to delivery locations to provide repairing cum replacement services of faulty equipment's within 48 hrs. Bidder is required to provide the name & address & contact details of the firm for providing warranty support & repairing cum replacement service up to delivery locations.

39 Penalty Clause for delay in delivery & installation

- 39.1 If the bidder fails to deliver and install the requisite hardware and software within the time limit as mentioned in the bid, then a sum equivalent to one percent (1%) of the total contract value shall be deducted from the payment for each calendar week of delay or part thereof.
- 39.2 The amount of penalty for delay in delivery & installation shall be subject to a maximum limit of 10% of the total contract value.
- 39.3 Delay in excess of 10 weeks will be sufficient to cause for termination of the contract. In that case the Performance Bank Guarantee of the bidder will be forfeited.
- 39.4 In case, the selected bidder does not supply the ordered items for any reason, the bidder will be liable to pay the difference amount to the purchaser, over and above the performance guarantee, which indenter department has to pay to the next or other selected bidder for purpose of the said items.
- 39.5 The Delivery for the Consumables against additional work order will have to be done within 15 working days from the date of such work order at the respective site/location, failing which, a penalty of 1% of the order value for each day of delay shall be levied.

40 Warranty

- 40.1 **Warranty**: Comprehensive onsite warranty for 3 years from the date of installation for all line items.
- 40.2 If any equipment becomes faulty more than 3 times in one month during the warranty period, the bidder shall replace the same with new equipment of same or higher capability without any additional cost to the purchaser.
- 40.3 Maintenance service: Free maintenance services shall be provided by the Bidder during **the period of warranty.**

- 40.4 In case, bidder does not provide satisfactory support & doing unwarranted delay in providing warranty support, Government offices reserves right to repair the equipment at risk & cost of the bidder.
- 40.5 For Printer Cartridge, good quality of cartridge is required to be supplied by the bidder during the entire period of project. In case the cartridge is found to be of substandard quality or have some issue/problem, then bidder will have to replace the same by supplying new cartridge at such locations free of cost.

41 Maintenance/Warranty period Penalty:

- 41.1 During warranty period, if the complaint is not resolved within 48 hrs. from the time of reporting of the complaint, the penalty of Rs. 300 per day per item for Desktops & Printers and within 72 hours the penalty of Rs. 200 per day for other peripherals will be levied. However, if the complaints are not resolved within 7 days, then from the 8th day till the 14th day, the penalty would be levied @ 150% and from 15th day onwards penalty @ 200% of the above rates would be levied. The amount of penalty will be recovered from the Performance bank guarantee during warranty period.
- 41.2 The amount of maintenance /Warranty period Penalty shall be subject to a maximum limit of 5% of the total contract value.

Note:

 Successful bidder should submit the Performance Bank Guarantee @ 5% of total order value for the duration of (for warranty period + extra 3 months) as per bid requirements. In any case, bidder is required to maintain 5% PBG at all time during the period of contract. In case of any penalty claimed from the submitted PBG during the contract period, the successful bidder is required to submit the additional PBG of the amount equal to the penalty claimed for the duration up to the validity of original Bank Guarantee.

For example, For 3 years warranty "X" amount of penalty will be claimed during the 5th month of contract period (for , then bidder is required to submit the additional PBG of "X" amount for the period of 34 months i.e. 39 months - 5 months.

- 42 **Payment:** Payment for Goods and Services shall be made by the indenting department in Indian Rupees as follows:
 - 42.1 No advance payment will be made.
 - 42.2 90% payment after successful inspection and delivery of the ordered goods. The inspection will be done as decided by GIL.
 - 42.3 10% payment will be done after successful installation, commissioning & functional training of the ordered goods.
- 43 GIL reserves the right to change any bid condition of any item even after inviting the bids, with/without prior notification.

44 **Scope of Work for printers**:

During the warranty period of printer, Purchasing may place purchase order for commercial cartridge quoted under this bid & successful bidder will have to supply ordered commercial cartridge for printer. (Bidder will have to submit undertaking for the same at the time of quoting in the bid).

45 **Quantity of Order**:

- 45.1 The quantity mentioned in this Bid is as per indents received by GIL. During the validity of Bid, any Govt. Dept can place purchase order for any item at finalized rates under this bid, hence successful vendor will have to accept purchase orders during the validity of Bid period.
- 45.2 The tendered quantities are indicative and are based on the receipt of the requirement from the purchasing department. The quantities may decrease up to 50% of the bid quantity or increase up to 30% of the bid quantity at the time of finalization, depending upon the change in the requirements/grants available with the purchaser(s), which shall be binding to the bidder.
- 46 All correction/addition/deletion shall require authorized countersign.
- 47 **Limitation of Vendor's Liability:** Selected agency's cumulative liability for its obligations under the contract shall not exceed the value of the charges payable by the GIL within the remaining duration of the contract term from the day claim is raised and selected agency shall not be liable for incidental, consequential, or indirect damages including loss of profit or saving.

48 Force Majeure: Force Majeure Shall mean and be limited to the following:

- a) Fire, explosion, cyclone, earthquake, flood, tempest, lightening or other natural physical disaster;
- b) War / hostilities, revolution, acts of public enemies, blockage or embargo;
- c) Any law, order, Riot or Civil commotion, proclamation, ordinance, demand or requirements of any Government or authority or representative of any such Government including restrictive trade practices or regulations;
- d) Strikes, shutdowns or labor disputes which are not instigated for the purpose of avoiding obligations herein, or;
- e) Restrictions imposed by the Government or other statutory bodies which prevents or delays the execution of the order;
- f) Any other circumstances beyond the control of the party affected;

The BIDDER shall intimate Purchaser by a registered letter duly certified by the local statutory authorities, the beginning and end of the above causes of delay within seven (7) days of the occurrence and cessation of such Force Majeure Conditions. In the event of delay lasting over two months, if arising out of causes of Force Majeure, Purchaser reserves the right to cancel the order.

Delivery & Installation period may be extended due to circumstances relating to Force Majeure by the Purchaser. Bidder shall not claim any further extension for delivery & installation or completion of work. Purchase / GoG shall not be liable to pay extra costs under any circumstances.

The BIDDER shall categorically specify the extent of Force Majeure conditions prevalent in their works at the time of submitting their bid and whether the same have been taken in to consideration or not in their quotations. In the event of any Force Majeure cause, the BIDDER shall not be liable for_delays in performing their obligations under this order and the delivery dates can be extended to the BIDDER without being subject to price reduction for delayed deliverables, as stated elsewhere.

It will be prerogative of Purchaser / GoG to take the decision on force major conditions and Purchaser decision will be binding to the bidder.

49 The Clarifications must be submitted in writing to GIL at least 5 days before the pre-bid meeting date. Thereafter the clarifications received from the bidders will not be entertained.

The bid should be submitted on the website <u>https://gil.nprocure.com</u> on or before 1500 hrs., 27.09.2017.

The Technical Bids will be opened on **27.09.2017 at 17:00 Hours at GIL, Block No. 1, 8th Floor, Udhyog Bhavan**, in the presence of the committee members and representatives of the bidders, who have submitted valid bids. Only one representative from each bidder will be allowed to attend the tender opening. The representative will be held responsible for all commitments made on behalf of the bidder and that will be considered valid for all further dealings related to this tender process.



Please address all queries and correspondence to

Shri Vivek Upadhyay, DGM (Tech.),

Gujarat Informatics Limited Block-1, 8th Floor, Udhyog Bhavan, Gandhinagar – 382010 Phone No. 079-23259239, Fax No. 079-23238925 **E-mail: <u>viveku@gujarat.gov.in</u>**



SECTION I

Bid Processing Fees & Earnest Money Deposit Details

	Sr. No.	Item	Amount	(In Rs.)	Name of the Bank & Branch	Demand Draft No.
	1	Bid Processing Fees				
Ī	2	Earnest Money Deposit (E.M.D.)				

ELIGIBILITY CRITERIA

Financial Year	Turnover (Rs. In Crores)	Audited Accounts submitted? (Yes/No)

Note: Please fill this form and upload the audited Annual Accounts for the last three financial years.

Form no. E2 Office in GUJARAT

Sr. No.	Address	Contact Person	Contact nos.	Type of supporting document uploaded
1				
2				

Note: You may mention more than one office (if applicable) by adding multiple rows

Form No. E3 Experience Details (Customer References)

Sr. No.	Name of the Organization	Contact Person	Contact telephone no. & Address	Date/Period of implementation	No. of Installations	Type of Supporting Document uploaded

Note: Please fill this form and submit the supporting documents for each customer reference in scanned format. Failing the same may lead to the rejection of the bid.

Form no. E4 Authorization Letters

_	Sr. Io.	Item	Make & Model	Name of OEM	Authorization letter uploaded? (Yes/No)
1	1.	Desktop PC			
2	2.	Multifunctional Laser Printer			
		(Print, Scan, Copy)			
3	3.	600 VA Line Interactive UPS			



Form no. E5: ISO 9001:2008 certification for Manufacturing

Sr. No.	ltem	Make & Model	Name of OEM	ISO certification valid up to	ISO certification submitted? (Yes/No)
1.	Desktop PC				
2.	Multifunctional Laser Printer (Print, Scan, Copy)				
3.	600 VA Line Interactive UPS				

Note: You may quote only one Make/Model option against each Line item.

SECTION II

Make & Model List

Sr. No.	Item	Make & Model	Supporting Document uploaded? (Yes/No)
1.	Desktop PC		
2.	Multifunctional Laser Printer (Print, Scan, Copy)		
3.	600 VA Line Interactive UPS		

Note: You may quote only one Make and Model against each Line item.



GUJARAT INFORMATICS LIMITED BLOCK NO.-1, 8TH FLOOR, UDYOG BHAVAN, SECTOR-11, GANDHINAGAR

1		Item	Matched/ Not Matched	Deviation/ Remarks (If any)
1		Desktop PC		
1 Fo	orm Factor	Tower Cabinet / SFF		
	CPU	6 th Generation Intel® Core [™] i5 (6M Cache, 3.00 GHz) or higher OR AMD A10 Processor (3M Cache, 3.20 GHz) or higher		
M	otherboard	For (Intel H110 chipset or better) For AMD (AMD A78 chipset or better)		
Bus	Architecture	Integrated onboard graphics, minimum 2 no.s of PCI/PCIe slots, Integrated Audio		
	Memory	Min. 4 GB DDR3 @ 1600 MHz/DDR4 @ 1866 MHz RAM (Single Module Should be supplied) with 1 DIMM slot free.		
	Hard disk	1 TB or higher SATA hard disk with 7200 rpm		
I	Keyboard	USB or Ps/2 104 Keys keyboard		
	Mouse	USB Two button scroll optical mouse with pad		
	Ports	Total 6 USB ports with at least 2 USB 3.0 ports (min. 2 at front), VGA/HDMI, Microphone, Headphone		
	etworking features	10/100/1000 Mbps Network (Embedded)		
	0.S.	Pre-loaded licensed Microsoft Windows 10 Pro. National Academic edition (under shape the future program) Operating System with Latest service pack. Restore/ Recovery CD/ Self Mechanism		
	ta Recovery Software	Pre-loaded software tool that has provision for scheduled backup for restoring OS & data. Should have capability to take backup to external media. (Please specify name of Data Recovery Software)		
	Monitor	19.5" or higher wide screen LED Backlit based TFTs, Contrast Ratio – 1000:1 or better, Resolution – 1360 X 768 or better, TCO Displays 6.0 certified or better; Monitor should be of same make of offered PC Brand		
Ce	ertifications	RoHS , UL/CE/FCC or equivalent third party certification from reputed Agency, Windows 10 Certification, Energy Star, EPEAT Gold		
C	oust Cover	Dust Cover for CPU, Monitor		
	Speakers	2 nos. of Speakers (200W PMPO)		
	otical Drive	8x or better Internal DVD Writer		

MATICS LIMITED	BLOCK NO	GUJARAT INFORMATICS LIMITED -1, 8 TH FLOOR, UDYOG BHAVAN, SECTOR-11, GAI	NDHINAGAR	
w ● P	Flatbed Scan & cc USB connectivity Minimum 400 MF OS Compatibility Full Toner (No sta required to be sul (Note : Quoted Pf (No drum toner s	r A4 size, lution, plo optical resolution, plor scanning should be possible, 4Z Printer Processor : Windows, Linux, Mac arter toner), Genuine printer toner certificate of OEM is parit by bidder. rinter must be supplied along with composite cartridge eparate)) load the OEM undertaking for the clarity on what parts v arts are excluded. M under taking letter which clarify that cartridges to be set		
	s per the tender terr	r is required with Sr. Nos. of Goods/Items supplied certify ns & conditions. VA Line Interactive UPS (with 15 minutes Battery backu		ack warranty
3	T	Interactive UPS with 15 minutes Battery Back Up		
	General	Single Phase Input & Single Phase Output		
		Line Interactive UPS with AVR & PWM Technology		
	Switching Device	Switching Device shall be MOSFET or IGBT		
	Transfer time	Switching over time from AC mains to UPS mode on power failure shall be Max. 10 milliseconds		
	Input	160 V – 280 V, 50 Hz +/- 3 Hz , single phase AC		
	Input	160 V – 280 V, 50 Hz +/- 3 Hz , single phase AC AVR Output voltage in AC mode; 180-230 V+/- 10% ; 50 Hz +/- 3 Hz		
	Input Output	160 V – 280 V, 50 Hz +/- 3 Hz , single phase AC AVR Output voltage in AC mode; 180-230 V+/- 10% ; 50 Hz +/- 3 Hz UPS Output voltage in battery mode; 230 V +/- 10%, 50		
	Input Output AC Mode	160 V – 280 V, 50 Hz +/- 3 Hz , single phase AC AVR Output voltage in AC mode; 180-230 V+/- 10% ; 50 Hz +/- 3 Hz		
	Input Output AC Mode Battery Mode	160 V – 280 V, 50 Hz +/- 3 Hz , single phase AC AVR Output voltage in AC mode; 180-230 V+/- 10% ; 50 Hz +/- 3 Hz UPS Output voltage in battery mode; 230 V +/- 10%, 50 Hz +/-1 Hz load power factor of not less than 0.6 lagging If input voltage goes outside the range 160V-280V, the		
	Input Output AC Mode Battery Mode	160 V – 280 V, 50 Hz +/- 3 Hz , single phase AC AVR Output voltage in AC mode; 180-230 V+/- 10% ; 50 Hz +/- 3 Hz UPS Output voltage in battery mode; 230 V +/- 10%, 50 Hz +/-1 Hz load power factor of not less than 0.6 lagging If input voltage goes outside the range 160V-280V, the system shall switch over to UPS mode Over Voltage, short circuit and overload at UPS output		
	Input Output AC Mode Battery Mode Protections	160 V – 280 V, 50 Hz +/- 3 Hz , single phase AC AVR Output voltage in AC mode; 180-230 V+/- 10% ; 50 Hz +/- 3 Hz UPS Output voltage in battery mode; 230 V +/- 10%, 50 Hz +/-1 Hz load power factor of not less than 0.6 lagging If input voltage goes outside the range 160V-280V, the system shall switch over to UPS mode Over Voltage, short circuit and overload at UPS output terminal, no load shut down. Cold start		
	Input Output AC Mode Battery Mode Protections	160 V – 280 V, 50 Hz +/- 3 Hz , single phase AC AVR Output voltage in AC mode; 180-230 V+/- 10% ; 50 Hz +/- 3 Hz UPS Output voltage in battery mode; 230 V +/- 10%, 50 Hz +/-1 Hz load power factor of not less than 0.6 lagging If input voltage goes outside the range 160V-280V, the system shall switch over to UPS mode Over Voltage, short circuit and overload at UPS output terminal, no load shut down. Cold start Under voltage at battery terminal, Battery over charge		
	Input Output AC Mode Battery Mode Protections Indicators and meters	160 V – 280 V, 50 Hz +/- 3 Hz , single phase AC AVR Output voltage in AC mode; 180-230 V+/- 10% ; 50 Hz +/- 3 Hz UPS Output voltage in battery mode; 230 V +/- 10%, 50 Hz +/-1 Hz load power factor of not less than 0.6 lagging If input voltage goes outside the range 160V-280V, the system shall switch over to UPS mode Over Voltage, short circuit and overload at UPS output terminal, no load shut down. Cold start Under voltage at battery terminal, Battery over charge		
	Input Output AC Mode Battery Mode Protections Indicators and meters Battery details	160 V – 280 V, 50 Hz +/- 3 Hz , single phase AC AVR Output voltage in AC mode; 180-230 V+/- 10%; 50 Hz +/- 3 Hz UPS Output voltage in battery mode; 230 V +/- 10%, 50 Hz +/-1 Hz load power factor of not less than 0.6 lagging If input voltage goes outside the range 160V-280V, the system shall switch over to UPS mode Over Voltage, short circuit and overload at UPS output terminal, no load shut down. Cold start Under voltage at battery terminal, Battery over charge Mains presence, UPS mode, Battery low, overload Sealed Maintenance Free (VRLA) Built-in Exide/Quanta/CSB/Panasonic /Yuasa(Battery Sr. No on		
	Input Output AC Mode Battery Mode Protections Indicators and meters Battery details Battery Type	160 V – 280 V, 50 Hz +/- 3 Hz , single phase AC AVR Output voltage in AC mode; 180-230 V+/- 10%; 50 Hz +/- 3 Hz UPS Output voltage in battery mode; 230 V +/- 10%, 50 Hz +/-1 Hz load power factor of not less than 0.6 lagging If input voltage goes outside the range 160V-280V, the system shall switch over to UPS mode Over Voltage, short circuit and overload at UPS output terminal, no load shut down. Cold start Under voltage at battery terminal, Battery over charge Mains presence, UPS mode, Battery low, overload Sealed Maintenance Free (VRLA) Built-in		

Note : For all types of Desktops, Multifunctional Laser Printers, UPS warranty assured by bidders should be reflected on OEMs website/portal (Please upload OEM undertaking letter)



SECTION III

Form no. F1 – FINANCIAL BID FORMAT

Sr. No	ITEM	Qty. (In Nos.)	Unit Prices with Warranty (In Rs. Without tax)	Total Price (In Rs. Without tax)	Rate of GST (%)
A	В	С	D	E=C*D	F
1	Desktop PC	3468			
2	Multifunctional Laser Printer (Print, Scan, Copy) with Cartridges (inbuilt drum, toner)	3468			
3	600 VA Line Interactive UPS	3468			
	Grand Total				

Note:

- 1. L1 will be the lowest sum total of rates of all line items without tax with 3 years warranty.
- 2. Successful Vendor will have to supply/provide goods with an Invoice from a place located within State of Gujarat.
- 3. All the above items should comply with the technical and functional requirement of the RFP/Bid.
- 4. Above items are inclusive of cable & accessories required, if any.

Performa of Compliance letter/Authenticity of Information Provided

(On Non judicial Stamp paper of Rs. 100 duly attested by the First class Magistrate/Notary Public)

Date:

To, DGM (Tech.) Gujarat Informatics Ltd. Block-1, 8th Floor, Udhyog Bhavan, Gandhinagar.

Sub: Compliance with the tender terms and conditions, specifications and Eligibility Criteria

Ref: Tender No. HWT040917456

Dear Sir,

With reference to above referred tender, I, undersigned <<Name of Signatory>>, in the capacity of <<Designation of Signatory>>, is authorized to give the undertaking on behalf of <<Name of the bidder>>. We wish to inform you that we have read and understood the technical specification and total requirement of the above mentioned bid submitted by us on **DD.MM.2017**

We hereby confirm that all our quoted items meet or exceed the requirement and are absolutely compliant with specifications mentioned in the bid document.

We also explicitly understand that all quoted items meet technical specification of the bid & that such technical specification overrides the brochures/standard literature if the same contradicts or is absent in brochures.

In case of breach of any tender terms and conditions or deviation from bid specification other than already specified as mentioned above, the decision of GIL Tender Committee for disqualification will be accepted by us.

The Information provided in our submitted bid is correct. In case any information provided by us are found to be false or incorrect, you have right to reject our bid at any stage including forfeiture of our EMD/ PBG/cancel the award of contract. In this event, GIL reserves the right to take legal action on us.

Thanking you,

Dated this	dav	of	2017
	ua y	01	2017

Signature: ______ (in the Capacity of) :_____ Duly authorized to sign bid for and on behalf of

Note: This form should be signed by authorized signatory of bidder



PERFORMA OF UNDERTAKING

Undertaking of Authenticity for Computer Equipment Supplies

This has reference to Desktops being supplied/quoted to you vide your tender enquiry no. ______ dated

We hereby undertake that all the components/parts/assembly/software used in the Desktops under the above like Hard disk, Monitors, Memory, motherboard etc. shall be original new Components /parts/assembly/software from respective OEMs of the products and that no refurbished/duplicate/ second hand components/parts/ assembly / software are being used or shall be used.

In respect of licensed operating system, we undertake that the same shall be supplied along with the authorized license certificate will our name/logo (e.g. Product Keys on Certification of Authenticity in case of Microsoft Windows Operating System). Also, that it shall be sourced from the authorized source for use in India (e.g. Authorized Microsoft Channel in case of Microsoft Operating System).

Should you require, we shall produce certificate from our OEM supplier in support of above undertaking at the time of delivery. It will be our responsibility to produce such letters from our OEM supplier's within a reasonable time.

In case we are found not complying with above at the time of delivery or during installation, for the Desktops already billed, we agree to take back the equipment already supplied at our cost and return any amount paid to us by you in this regard and that you will have the right to forfeit our EMD / BG for this tender.

Authorized Signatory

Name:

Designation:

Note:

- (i) The signing Authority should be no lower than Company Secretary of the OEM of Desktop.
- (ii) The bidders are required to upload this undertaking from the OEMs of the Desktops for the quoted options.



Annexure A

Format of Earnest Money Deposit in the form of Bank Guarantee

Ref:

Bank Guarantee No. Date:

To, DGM(Technical) Gujarat Informatics Limited 8th Floor, Block -1, Udyog Bhavan, Sector - 11, Gandhinagar - 382017 Gujarat, India

THE CONDITIONS of this obligation are:

1. The E.M.D. may be forfeited:

- e. If a Bidder withdraws their Bid during the period of Bid validity.
- f. If Bidder does not respond to requests for clarification of their Bid
- g. If Bidder fails to co-operate in the Bid evaluation process, and
- h. In case of a successful Bidder, the said Bidder fails:
 - v. To sign the Agreement / Contract in time
 - vi. To furnish Performance Bank Guarantee
 - vii. If the bidder is found to be involved in fraudulent practices.
 - viii. GIL also reserves the right to blacklist such bidder from participating in future tenders if sufficient cause exists.

We undertake to pay to the GIL/Purchaser up to the above amount upon receipt of its first written demand, without GIL/ Purchaser having to substantiate its demand, provided that in its demand GIL/ Purchaser will specify that the amount claimed by it is due to it owing to the occurrence of any of the abovementioned conditions, specifying the occurred condition or conditions.

This guarantee will remain valid up to 9 months from the last date of bid submission. The Bank undertakes not to revoke this guarantee during its currency without previous consent of the OWNER/PURCHASER further agrees that if this guarantee is extended for a period as mutually agreed between bidder & owner/purchaser, the guarantee shall be valid for a period so extended provided that a written request for such extension is received before the expiry of validity of guarantee.

The Bank shall not be released of its obligations under these presents by any exercise by the OWNER/PURCHAER of its liability with reference to the matters aforesaid or any of them or by reason or any other acts of omission or

commission on the part of the OWNER/PURCHASER or any other indulgence shown by the OWNER/PURCHASER or by any other matter or things.

The Bank also agree that the OWNER/PUCHASER at its option shall be entitled to enforce this Guarantee against the Bank as a Principal Debtor, in the first instance without proceeding against the SELLER and not withstanding any security or other guarantee that the OWNER/PURCHASER may have in relation to the SELLER's liabilities.

Dated at ______ on this ______ day of _____2017.

Signed and delivered by

For & on Behalf of

Name of the Bank & Branch & Its official Address

Approved Bank: All Nationalized Bank including the public sector bank or Private Sector Banks or banks (operating in India having branch at Ahmedabad/ Gandhinagar) as per the G.R. no. EMD/10/2016/328/DMO dated 01.05.2017 issued by Finance Department or further instruction issued by Finance department time to time



Proforma of Contract-cum-Equipment Performance Bank Guarantee (To be stamped in accordance with Stamp Act)

Ref:

Bank Guarantee No. Date:

To Name & Address of the Purchaser/Indenter

Dear Sir,

In consideration of Name & Address of the Purchaser/Indenter, Government of Gujarat, Gandhinagar (hereinafter referred to as the OWNER/PURCHASER which expression shall unless repugnant to the context or meaning thereof include successors, administrators and assigns) having awarded to M/s. having Principal Office at shall unless repugnant to the context or meaning thereof include their respective successors, administrators, executors and assigns) the supply of ______ by issue of Purchase Order No...... Dated issued by Gujarat Informatics Ltd. ,Gandhinagar for and on behalf of the OWNER/PURCHASER and the same having been accepted by the SELLER resulting into CONTRACT for supplies of materials/equipments as mentioned in the said purchase order and the SELLER having agreed to provide a Contract Performance and Warranty Guarantee for faithful performance of the aforementioned contract and warranty guality to the OWNER/PURCHASER, having Head Office at (hereinafter referred to as the 'Bank' which expressly shall, unless repugnant to the context or meaning thereof include successors, administrators, executors and assigns) do hereby guarantee to undertake to pay the sum of Rs. _____(Rupees__) to the OWNER/PURCHASER on demand at any time up to_____ without a reference to the SELLER. Any such demand made by the OWNER/PURCHASER on the Bank shall be conclusive and binding notwithstanding any difference between Tribunals, Arbitrator or any other authority.

The Bank undertakes not to revoke this guarantee during its currency without previous consent of the OWNER/PURCHASER and further agrees that the guarantee herein contained shall continue to be enforceable till the OWNER/PURCHASER discharges this guarantee. OWNER/PURCHASER shall have the fullest liberty without affecting in any way the liability of the Bank under this guarantee from time to time to extend the time for performance by the SELLER of the aforementioned CONTRACT. The OWNER/PURCHASER shall have the fullest liberty, without affecting this guarantee, to postpone from time to time the exercise of any powers vested in them or of any right which they might have against the SELLER, and to exercise the same at any time in any manner, and either to enforce to forebear to enforce any covenants contained or implied, in the aforementioned CONTRACT between the OWNER/PURCHASER and the SELLER or any other course of or remedy or security available to the OWNER/PURCHASER.

The Bank shall not be released of its obligations under these presents by any exercise by the OWNER/PURCHAER of its liability with reference to the matters aforesaid or any of them or by reason or any other acts of omission or commission on the part of the OWNER/PURCHASER or any other indulgence shown by the OWNER/PURCHASER or by any other matter or things.

The Bank also agree that the OWNER/PUCHASER at its option shall be entitled to enforce this Guarantee against the Bank as a Principal Debtor, in the first instance without proceeding against the SELLER and not

withstanding any security or other guarantee that the OWNER/PURCHASER may have in relation to the SELLER's liabilities.

Notwithstanding anything contained herein above our liability under this Guarantee is restricted to Rs. ______ (Rupees _______) and it shall remain in force up to and including ______ and shall be extended from time to time for such period as may be desired by the SELLER on whose behalf this guarantee has been given.

Dated at ______ on this ______ day of ______2017.

Signed and delivered by

For & on Behalf of

Name of the Bank & Branch & Its official Address

List of approved Banks

All Nationalized Bank including the public sector bank or Private Sector Banks or banks (operating in India having branch at Ahmedabad/ Gandhinagar) as per the G.R. no. EMD/10/2016/328/DMO dated 01.05.2017 issued by Finance Department or further instruction issued by Finance department time to time



CONTRACT FORM

THIS	AGREE	EMENT	⁻ made (on the Name	of nurcha	day	of			, 2017	Be	etween
Purcha	<i>aser)</i> he	reinaft	ter "the Pu	irchase	er" of the o	ne part a	and				(COUI	(Name
of Sup	<i>plier)</i> of	f				(City and	d Country	of Supplie	er) here	einafter calle	ed "the Su	pplier"
of the	other p	oart :										
WHER	REAS	the	Purchaser	is	desirous	that	certain	Goods	and	ancillary	services	viz., (Brief
service	es in the	e sum o	of				5			e supply of t <i>(Contract Pl</i> illed "the Co	rice in Wor	ds and
NOW	THIS AG	GREEN	IENT WIT	HNESS	ETH AS FC	DLLOWS	:					
1					d expressio Contract re			same mea	anings	as are respe	ectively as	signed
2		followi ement,		ents s	hall be de	emed to	o form a	nd be rea	ad and	l construed	as part	of this
	2.1	the	Bid Form a	and the	Price Sche	dule sub	mitted by	y the Bidd	er;			
	2.2	tern	ns and con	ditions	of the bid							
	2.3	the	Purchaser	s Notif	ication of A	Award						
3	menti	ioned,	the Suppl	er here	eby conven	ants with	n the Pure	chaser to j	provide	the Supplie e the goods of the Contr	and servic	
4	servic	es and	I the reme	dying	of defects	therein, t	the Contr	act Price	or such	e provision o other sum manner pr	as may b	ecome
5			of the good sed annexi		services wh	ich shall	be suppli	ed / provid	ded by	the Supplie	er are as e	nlisted
ΤΟΤΑ	L VALU	IE:										
IN WI		where	of the part		eto have ca above writ		is Agreen	nent to be	e execu	ted in accor	dance wit	h their
Signeo	d, Seale	ed and	Delivered	oy the								
Said _					(F	or the Pı	urchaser)					
in the	presenc	ce of _										
Signeo	d, Seale	ed and	Delivered	oy the								
Said _					(F	or the Su	upplier)					
in the	presenc	ce of _										



The details of the modalities and charges for Quality testing at EQDC

- The verification of the computer hardware will be carried out by GIL at Ahmedabad/Gandhinagar. The proper inspection facility has to be provided by the supplier(s) at their cost.
- The quality testing of PCs & UPS (for each make & model quoted/offered by bidder) will be carried out by EQDC-Gandhinagar. The charges mentioned below for the same are to be paid directly to EQDC by the supplier(s).
- The quality testing charges of EQDC are as under:

Sr. No.	Item Category	Per Unit testing charge (In Rs.) (W/o GST)
1	PC	212,565
2	UPS	29,640

- GST shall be as applicable will be levied extra.
- In case of rejection of the sample(s), the entire lot of that item may be rejected and the equal nos. of sampling will be again taken from the new produced lot. The extra cost for the same has to be borne by the supplier.



Tests for Computer Hardware

(i) Personal Computer (includes CPU, Video Monitor, Keyboard, FDD/HDD, SMPS)

Tests
Inspection of Safety Requirements
Earth Leakage Current
Dielectric Strength
lonizing (X-ray) radiation
Conducted Susceptibility Tests
Electrostatic Discharge Test
Electrical fast Transient/Burst Test
Surge/Spike Test
Inspection of Performance Requirements
Visual Examination
Functional Performance
Effect Of Power Interruptions
Effect Of Power Supply Variations
VHF/UHF Output
Key Travel
Keyboard Controller
Actuating Force
Video Monitor Performance Test Suite
Resolution
Geometric distortion
Ripple distortion due to mains
Non-linearity due to scanning
Convergence error
Brightness
Effect of brightness variation on EFT
Humbar
FDD/HDD Performance Test Suite
Capacity
Recording density
Track density
Tracks/side
Recording Method
Rotational Speed



Tests
Average Latency time
Access time (max)
Time taken from 'Power On" to "Ready"
Rate of data transfer
Error Rate
Audible Noise
SMPS Performance Test Suite
Power Output
Output Voltage
Load Regulation
Efficiency
Periodic and Random Deviation (PARD)
Dynamic load regulation
Cross-Regulation
Over-load protection
In-rush Current
Hold-up Time
Power-Good Signal
Verification of Marking Requirements
Verification of Interface Requirements

(ii) UPS

Tests			
Visual Examination			
UPS Performance Test Suite			
(a) Electrical Tests			
UPS Input Test			
Steady State Input Voltage Tolerance Test			
Input Frequency Tolerance Test			
Inrush Current Test			
UPS Output Characteristics Test			
Output-Normal Mode-No Load			
Output-Normal Mode-Full Load			
Output-Stored Energy Mode-No Load			
Output-Stored Energy Mode-Full Load			
Output-Normal Mode-Overload			
(b) UPS Output Dynamic Characteristics Tests			
- 26 of 27 -			



Change of operating mode-Normal to stored energy mode
Change of operating mode-stored energy to Normal mode
Change of operating mode-Normal to Bypass mode (where applicable)
(c) Stored and restored energy time tests
Stored energy time test
R-stored energy time test
(d) Efficiency and input power factor
(e) High Voltage Test